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10/797,785	03/08/2004	Leslie R. Fine	82189586	4138
	7590 05/10/201 CKARD COMPANY		EXAM	IINER
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1	UNITED STATES PATENT AND TRADEMARK OFFICE
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3	
4	BEFORE THE BOARD OF PATENT APPEALS
5	AND INTERFERENCES
6	
7	
8	Ex parte LESLIE R. FINE,
9	BERNARDO A. HUBERMAN,
10	and PHILIP BLOCHER
11	
12	
13	Appeal 2010-010260
14	Application 10/797,785
15	Technology Center 3600
16	
17	
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19	Before MURRIEL E. CRAWFORD, ANTON W. FETTING, and
20	JOSEPH A. FISCHETTI, Administrative Patent Judges.
21	FETTING, Administrative Patent Judge.
	,

**DECISION ON APPEAL** 

22

1	STATEMENT OF THE CASE <sup>1</sup>
2	Leslie R. Fine, Bernardo A. Huberman, and Philip Blocher (Appellants)
3	seek review under 35 U.S.C. § 134 (2002) of a final rejection of claims 1
4	and 3-24, the only claims pending in the application on appeal. We have
5	jurisdiction over the appeal pursuant to 35 U.S.C. § 6(b) (2002).
6	The Appellants invented a way for predicting future outcomes of
7	uncertain events (Specification ¶ 0014).
8	An understanding of the invention can be derived from a reading of
9	exemplary claim 1, which is reproduced below [bracketed matter and some
10	paragraphing added].
11	1. A method of finance forecasting, comprising:
12	[1] creating an information market
13	having a plurality of participants,
14 15	the information market being implemented on a computer system;
16	[2] determining at least one participant characteristic
17	of a participant
18	based on the participants behavior
19	within the information market;
20	[3] defining probability bins,
21	each of the probability bins
22	corresponding to a probability

<sup>&</sup>lt;sup>1</sup> Our decision will make reference to the Appellants' Appeal Brief ("App. Br.," filed April 13, 2010) and Reply Brief ("Reply Br.," filed July 6, 2010), and the Examiner's Answer ("Ans.," mailed May 5, 2010).

1		associated with	an expected outcome;
2	[4] performing	ng a query process	
3	with th	ne probability bins as a	essets,
4 5	where partici	• •	n receives an input from the
6	and		
7	[5] aggregati	ng a result	
8	of the	query process	
9	with w	eighting for the partic	ipant characteristic.
10	The Examine	er relies upon the follo	wing prior art:
	Kaplan	US 7,155,510 B1	Dec. 26, 2006
	Lundgren	US 5,608,620	Mar. 4, 1997
11 12		•	orecasting with an Application to Science, Vol. 25, No. 6, June 1979)
13 14	Pennock, The P 2000-168; Febr	• ,	esearch Institute Technical Report
15 16 17	Implementation	for a Sales Forecastin	anisms: Concept, Design, and ag Problem, Social Science tute of Technology, March 2002
18 19		8-14, and 17-23 stand it or Kaplan and Sarin. <sup>2</sup>	rejected under 35 U.S.C. § 103(a)
	•	•	andon 25 II S.C. \$ 102(a) as
20		· ·	under 35 U.S.C. § 103(a) as
21	unpatentable over I	Kaplan, Sarin, and Pen	поск.

<sup>2</sup> The Examiner also relies on administrative notice of the use of buckets in forecasting with probability analysis and presents Plott as evidence to support this finding.

1	Claim 24 stands rejected under 35 U.S.C. § 103(a) as unpatentable over
2	Kaplan, Sarin, and Lundgren.
3	ISSUES
4	FACTS PERTINENT TO THE ISSUES
5	The following enumerated Findings of Fact (FF) are believed to be
6	supported by a preponderance of the evidence.
7	Facts Related to Claim Construction
8	01. The disclosure contains no lexicographic definition of
9	"probability bin."
10	02. The term probability bin as used in the disclosure Fig. 6 is that
11	of a range of an output variable that may be assigned a probability
12	of occurrence.
13	Facts Related to Appellants' Disclosure
14	03. A market where the asset is information rather than a physical
15	good has the potential to provide some guidance on the prediction
16	of future outcomes. Specification ¶ 0015.
17	Facts Related to the Prior Art
18	Kaplan
19	04. Kaplan is directed to forecasting a wide range of values related
20	to human behavior including financial information for markets of
21	all kinds (bonds, stocks, government securities, commodity
22	futures), and to forecasting of sports scores, political elections, or

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- future events of any kind that can be quantified and for which many people possess relevant knowledge. Kaplan 4:32-37.
  - 05. Kaplan does this by generating a collective information for a particular item from a plurality of raw information for that same item by: gathering raw information from first entities for a particular item; processing the raw information for the particular item to generate a processed collective information for the item; and communicating the processed collective information to second entities. Kaplan 2:54-62.
    - 06. Kaplan is used for generating quantitative forecasts, based on the collective intelligence or data input of many individuals or other entities whether human or not. Kaplan may incorporate predictions from non-human agents as well as from human agents. Various factual data may be utilized, such as public or proprietary financial or economic data. The input from zero or more computerized agents or other non-human entities may be combined with zero or more human agents to produce a more accurate collective forecast. This quantitative forecast finds particular application to forecasting financial information such as stock and bond prices, stock index values, interest rates, international currencies, gold and precious metals, agricultural product futures, and the like. Kaplan 4:38-62.
    - 07. Kaplan weighs the individual forecasts by the likelihood that the person making the forecast is correct. Kaplan 7:1-5. One of ordinary skill knew that likelihood was a form of probability.

1	Sarin
2	08. Sarin is directed to describing an approach for long term
3	forecasting and illustrating it with an application to forecasting
4	solar electric energy market penetration by the year 2000. The
5	approach can also be used for long term forecasting of other new
6	technologies, fuel price and availability, and business
7	performance, etc. Sarin 543: First ¶.
8	09. Sarin's approach utilizes multiple future scenarios to come up
9	with alternative projections. The decision maker is also provided
10	with the conditions under which high or low forecasts would
11	result. Sarin 544:Second ¶.
12	10. Sarin describes aggregating the results of such scenario's by
13	weighting the results by the experience of those providing the
14	results. Sarin 551-552.
15	Plott
16	11. Plott is directed to information aggregation mechanisms. Plot
17	Title.
18	12. Plott provides evidence as to the use of result intervals
19	(buckets) to collect data regarding frequency of occurrence in.
20	Plott 7.
21	13. Plott associates these intervals with their probability. Plott 11.
22	ANALYSIS
23	The Examiner applied Kaplan for the bulk of the independent claims'
24	limitations. Kaplan describes creating such an information market with

- many participants (limitation [1]), each of whom is measured for their
- 2 experience in being right in forecasts (limitation [2]), defining discrete
- 3 results that might be expected from such financial product, each result then
- being measured for the likelihood of occurrence (limitation [3]) querying the
- 5 participants as to such likelihoods of results (limitation [4]) and weighting
- 6 the results based on the participant's experience at being correct (limitation
- 7 [5]). The Examiner then applied Sarin and administrative notice for finding
- 8 ranges of values for such results in probability buckets and more explicit
- 9 descriptions of weightings. Thus, the Examiner did not apply Sarin and
- administrative notice to alter Kaplan so much as to show the one of ordinary
- skill knew that the scope of Kaplan's system was predictable modified to be
- within the scope of the claims.
- We are not persuaded by the Appellants' argument that the art teaches
- away from using historical data or experts or accumulating or ordering
- information. Appeal Br. 8-17; Reply Br.1-7. These arguments are not
- commensurate with the scope of the claims as the claims do not recite the
- use of historical data, experts, and organizing information. Also, none of
- the references disparage such techniques or suggest using them would cause
- 19 failure.
- 20 What a reference teaches or suggests must be examined in the
- context of the knowledge, skill, and reasoning ability of a
- skilled artisan. What a reference teaches a person of ordinary
- skill is not [] limited to what a reference specifically "talks
- about" or what is specifically "mentioned" or "written" in the
- reference. Under the proper legal standard, a reference will
- teach away when it suggests that the developments flowing
- from its disclosures are unlikely to produce the objective of the
- applicant's invention. In re Gurley, 27 F.3d 551, 553 (Fed. Cir.
- 29 1994). A statement that a particular combination is not a

1	preferred embodiment does not teach away absent clear
2	discouragement of that combination. In re Fulton, 391 F.3d at
3	1199-1200. [] [A] prior art reference that does not specifically
4	refer to one element of a combination does not, per se, teach
5	away. If it did, only references that anticipate could be used to
6	support an obviousness analysis. However, prior art references
7	that are capable of rendering an invention obvious under a section 103 analysis are not limited to reference that also
8	anticipate the patent at issue.
10	Syntex (U.S.A.) LLC v. Apotex, Inc., 407 F.3d 1371, 1380 (Fed. Cir. 2005)
11	As to motivation to combine, again, Sarin and Plott merely elaborate on
12	implementation details for Kaplan's use of result likelihoods and weighting
13	of results. Whether one reference uses data sources different from another
14	merely shows the diversity of sources available, rather than obviating a
15	reason to combine.
16	CONCLUSIONS OF LAW
17	The rejection of claims 1, 3-6, 8-14, and 17-23 under 35 U.S.C. § 103(a)
18	as unpatentable over Kaplan and Sarin is proper.
19	The rejection of claims 6-7 and 15-16 under 35 U.S.C. § 103(a) as
20	unpatentable over Kaplan, Sarin, and Pennock is proper.
21	The rejection of claim 24 under 35 U.S.C. § 103(a) as unpatentable over
22	Kaplan, Sarin, and Lundgren is proper.
22	DECISION
23	DECISION
24	The rejection of claims 1 and 3-24 is affirmed

1	No time period for taking any subsequent action in connection with this
2	appeal may be extended under 37 C.F.R. § 1.136(a). See 37 C.F.R.
3	§ 1.136(a)(1)(iv) (2007).
4	
5	<u>AFFIRMED</u>
6	
7	
8	
9	JRG